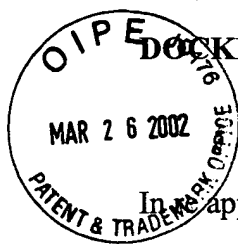


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DOCKET NO.: NOKI14-00020

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In application of : PETRI HYYPPA, ET AL.  
U.S. Serial No. : 10/083,432  
Filed : February 26, 2002  
For : ELECTRONIC TRANSACTIONS  
Group No. : Not yet assigned  
Examiner : Not Yet Assigned

Commissioner for Patents  
Washington, D. C. 20231

Sir:

CERTIFICATE OF MAILING BY FIRST CLASS MAIL

The undersigned hereby certify that the enclosed:

- 1) Certified copy of United Kingdom Application No. 0105267.9; and,
- 2) Postcard Receipt.

relating to the above application, were sent to the Commissioner for Patents via First Class Mail in an envelope addressed to Commissioner for Patents, Washington, D.C. 20231 on March 15, 2002.

Date: March 15, 2002

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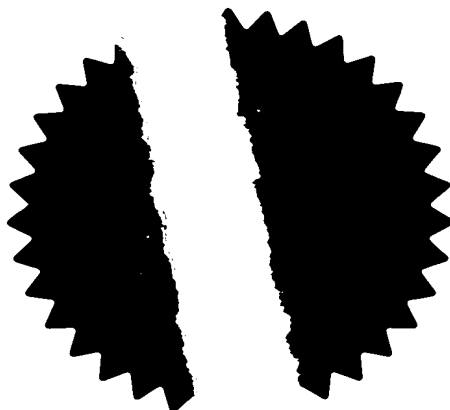
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NP10 8QQ

I, the undersigned, being an officer duly authorised in accordance with Section 74(1) and (4) of the Deregulation and Contracting Out Act 1994, to sign and issue certificates on behalf of the Comptroller-General, hereby certify that annexed hereto is a true copy of the documents as originally filed in connection with the patent application identified therein together with the Statement of inventorship and of right to grant of a Patent (Form 7/77), which was subsequently filed.

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Dated

*Stephen Hurdley*  
22 February 2002

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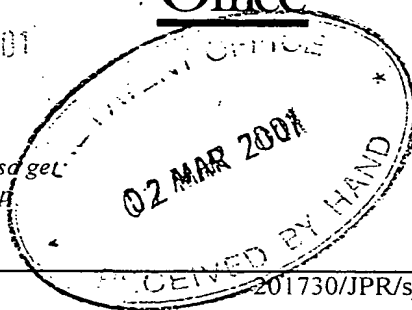
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02 MAR 2001

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Cardiff Road  
Newport  
Gwent NP9 1RH

# Request for grant of a patent

(See the notes on the back of this form. You can also get an explanatory leaflet from the Patent Office to help you fill in this form)



05MAR01 E610660-13 002825  
P01/7700 0.00-0105267.9

1. Your reference 201730/JPR/sjr

2. Patent application number  
(The Patent Office will fill in this part) **0105267.9**

3. Full name, address and postcode of the or of each applicant (underline all surnames) NOKIA MOBILE PHONES LTD  
KEILALAHDENTIE 4  
03260 ESPOO  
FINLAND

Patents ADP number (if you know it)

If the applicant is a corporate body, give the country/state of its incorporation

Finland

07406747002

4. Title of the invention ELECTRONIC TRANSACTIONS

5. Name of your agent (if you have one) PAGE WHITE & FARRER  
54 DOUGHTY STREET  
LONDON WC1N 2LS  
UNITED KINGDOM

"Address for service" in the United Kingdom to which all correspondence should be sent (including the postcode)

Patents ADP number (if you know it)

1255003

6. If you are declaring priority from one or more earlier patent applications, give the country and the date of filing of the or of each of these earlier applications and (if you know it) the or each application number

Country	Priority application number (if you know it)	Date of filing (day / month / year)

7. If this application is divided or otherwise derived from an earlier UK application, give the number and the filing date of the earlier application

Number of earlier application	Date of filing (day / month / year)

8. Is a statement of inventorship and of right to grant of a patent required in support of this request? (Answer 'Yes' if:

a) any applicant named in part 3 is not an inventor, or

b) there is an inventor who is not named as an applicant, or

c) any named applicant is a corporate body

See note (d))

Yes

# Patents Form 1/77

9. Enter the number of sheets for any of the following items you are filing with this form. Do not count copies of the same document

## Continuation sheets of this form

Description	18
Claim(s)	4
Abstract	1
Drawing(s)	3 + 3 <i>ph</i>

10. If you are also filing any of the following, state how many against each item.

## Priority documents

Translations of priority documents

Statement of inventorship and right to grant of a patent (Patents Form 7/77)

Request for preliminary examination and search (Patents Form 9/77) 1 ✓

Request for substantive examination (Patents Form 10/77)

Any other documents  
(please specify)

11. I/We request the grant of a patent on the basis of this application.

Signature

*Peter White & Farrer*  
PAGE WHITE & FARRER

Date 02.03.01

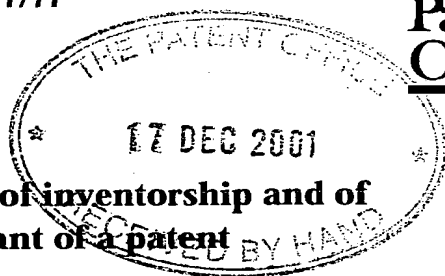
12. Name and daytime telephone number of person to contact in the United Kingdom Juha-Pekka Ruuskanen  
020 7831-7929

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**Statement of inventorship and of  
right to grant of a patent**

The Patent Office

Cardiff Road  
Newport  
South Wales  
NP9 1RH

1. Your reference	201730/JPR/sjr
2. Patent application number (if you know it)	0105267.9
3. Full name of the or of each applicant	Nokia Mobile Phones Limited
4. Title of the invention	ELECTRONIC TRANSACTIONS
5. State how the applicant(s) derived the right from the inventor(s) to be granted a patent	By virtue of a contract of employment.
6. How many, if any, additional Patents Forms 7/77 are attached to this form? (see note (c))	one four
7.	<p>I/We believe that the person(s) named over the page (and on any extra copies of this form) is/are the inventor(s) of the invention which the above patent application relates to.</p> <p>Signature <i>Page White &amp; Farrer</i> Date 17.12.01</p> <p>PAGE WHITE &amp; FARRER</p>
8. Name and daytime telephone number of person to contact in the United Kingdom	JP Ruuskanen (020) 7831-7929

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Patents ADP number (if you know it): 08235673001

Panu S MARKKANEN  
Kuovitie 1B3  
FIN-90540 Oulu  
Finland

Patents ADP number (if you know it): 0807621001

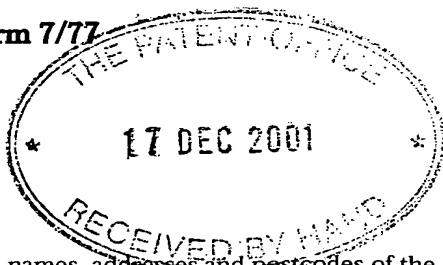
Lauri PIIKIVI  
Rantakastellintie 14 D2  
FIN-90230 Oulu  
Finland

Patents ADP number (if you know it): 08172207001

Reminder

Have you signed the form?





Enter the full names, addresses and postcodes of the inventors in the boxes and underline the surnames

Piotr COFTA  
Itämerenkatu 8 A 14  
FIN-00180 Helsinki  
Finland

Patents ADP number (if you know it): 08235665001

Patents ADP number (if you know it):

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**Statement of inventorship and of  
right to grant of a patent**

The Patent Office

Cardiff Road  
Newport  
South Wales  
NP9 1RH

1. Your reference

2. Patent application number  
(if you know it)

3. Full name of the or of each applicant

4. Title of the invention

5. State how the applicant(s) derived the right  
from the inventor(s) to be granted a patent

6. How many, if any, additional Patents Forms  
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7. I/We believe that the person(s) named over the page (and on  
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Signature

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# Electronic transactions

5 The present invention relates to electronic transactions, and in particular, but not exclusively, to provision of additional information by means of a mobile user equipment that is adapted for use in electronic transactions.

10 Various mobile or portable user equipment such as mobile telephones or other types of mobile stations or portable computers are known by the skilled person. A mobile user equipment may be capable of communication via a wireless link with another device such as a base station of a mobile  
15 telecommunication network or any other station. A mobile user equipment can be adapted for voice, text message or data communication via the wireless link. Such a mobile user equipment is sometimes referred to by the term 'mobile station'.

20

The inventors have found that the mobile user equipment could also be used for exchange of information that associates with electronic transactions between two or more parties. The possible transactions could include, without restricting to  
25 these, transactions such as ordering of goods and/or services, transactions that associate with payment of purchased goods and/or services, provision of an electronic receipt, or transactions associated with banking or other financial services and so on. The mobile user equipment could  
30 also be used for exchange and/or storage of other confidential information such as personal identification data, passport data and so on. It shall thus be appreciated that in this specification the term 'transaction' is not

restricted to commercial transactions between parties but instead the term refers to exchange of any information such as confidential or personal information.

- 5 To enable electronic transactions between two entities a common transaction mechanism is required. In general term, a typical transaction mechanism can be defined to comprise features such as the communication media between the parties of the electronic transaction and transaction protocols and  
10 parameters. Content transfer and presentation formats need also be defined. Security mechanisms and other functions may also be required for an electronic transaction between the parties.
- 15 The inventors have found that it could be advantageous if the users could get some additional information that associates with the subject of a transaction procedure. For example, a user may wish to obtain additional information of a product he/she has purchased or is considering to purchase. The  
20 additional information could comprise, for example, a more detailed description of the materials, production methods, production sites and/or dates and so on than what is provided with the product itself and/or what can be found from a brochure or user manual of the product. An example of the  
25 additional information is a sample of the product. That is, a user may also wish to have a possibility to test a product or to receive a sample of a product such as a video or music recording and so on.
- 30 Embodiments of the present invention aim to provide a solution by means of which the user of a user equipment can be provided with additional information associated with a transaction.

According to one aspect of the present invention, there is provided a method in a system wherein a user equipment and another party are enabled to exchange transaction data, the method comprising: generating a data entity that associates with a transaction; including information of an object that associates with the transaction in the data entity; transmitting the data entity to the user equipment over a wireless interface; and requesting by the user equipment for additional information that associates with the transaction based on said information of the object.

The information of the object may comprise a communication network address of the object. The object may comprise a storage means for storing information that associates with the subject of the transaction. The object may comprise a site in a data network. The data entity may be based on an electronic data card format.

According to another aspect of the present invention there is provided a system wherein a user equipment and another party are enabled to exchange transaction data, comprising: transaction means for processing a transaction between the user equipment and said other party, said transaction means being adapted to generate a data entity including transaction data and information of an object associated with the transaction; communication means for transmission of the data entity to the user equipment over a wireless interface; and control means at the user equipment for processing the received data entity, said control means being adapted to request for additional information based on said information of the object.

According to another aspect of the present invention there is provided a mobile user equipment adapted for processing electronic transactions, comprising: receiver means for receiving a data entity from a remote unit, said data entity  
5 including transaction data and information of an object associated with the transaction; and control means for processing the received data entity, said control means being adapted to request for additional information based on said information of the object.

10

The embodiments of the invention may provide a feasible solution for the provision of additional information for the user of a mobile user equipment. The user may be provided with a possibility to select whether he/she wishes to receive  
15 any additional information or not. The inventive concept may utilise already existing components of a cellular communication system thereby making the implementation thereof feasible.

20 For better understanding of the present invention, reference will now be made by way of example to the accompanying drawings in which:

Figure 1 shows a mobile user equipment that can be used in the embodiments of the present invention;

25 Figure 2 illustrates information flows in accordance with an embodiment;

Figure 3 is a flowchart illustrating the operation of one embodiment of the present invention; and

30 Figure 4 show a possible architecture of a mobile station provided with electronic transaction facility.

Figure 1 shows a mobile user equipment that may be used in the embodiments of the present invention. More particularly,

Figure 1 is a partially sectioned view of a mobile station 1 that may be used for communication over a wireless interface. If the mobile station 1 subscribes to a cellular mobile communication network the mobile station 1 may be adapted to communicate with a transceiver entity of the mobile communication network. Various possible transceivers entities that may be in communication with the mobile station 1 are known and are thus not illustrated or described in any greater detail. It is sufficient to note that the transceiver entity may comprise a base station (BTS) 10 of the cellular system or any other appropriate element with which the mobile station may communicate with over a wireless interface. Other elements of a cellular system are also known by the skilled person and are omitted from Figure 1 for clarity reasons.

The mobile station 1 may be provided with user interface means comprising a display 2 and input means. The skilled person is familiar with different user interfaces of a mobile station and therefore these will not be described in more detail herein. It is sufficient to note that the input means may be formed by control buttons 3 or they may include e.g. voice activation or touch screen means and so on. The mobile station 1 may also be provided with communication interface means such as antenna means for communication with the transceiver entity 10. The antenna means may comprise an external antenna element 4, or then built-in or integrated antenna means may be used. It should be appreciated that antenna means are not essential for the operation of the present invention.

The mobile station 1 is adapted to facilitate use thereof for electronic transactions. For example, the user of the mobile station 1 may pay for various goods and/or services by means

of the mobile station 1 or access various banking services by the mobile station 1. The mobile station 1 may also be used for ordering, negotiating or purchasing goods and/or services, for receiving a receipt of a purchase or for any other operation where transaction data needs to be exchanged between the user and another party. Examples of other possibilities include use of the mobile station 1 for transactions that associate with betting, insurance, banking or other financial services. Possible transaction processing means will be described in more detail with reference to Figure 3.

The mobile station 1 is shown to comprise a transaction processor function 6 and a transaction data storage means 7. The processor function 6 is for processing data and/or controlling reception and/or transmission of transaction data from and/or to the other parties. The processor function 6 may be integrated with at least one other processor function of the mobile station 1 or may be adapted to process data that associates with electronic transactions only. The data storage means 7 may also be either integrated with at least one other function of the mobile station 1 or be assigned solely for storage of data that associates with the electronic transactions. Separation of the transaction functions from other functions of the mobile station 1 may be preferred e.g. for security or usability reasons.

In Figure 1 the other party of a transaction is shown to comprise an entity 12 that is referred to by the term 'service provider'. The service provider shall be understood to be any party that may exchange transaction data with the mobile station 1. In a practical implementation the service provider 12 may comprise a server that is adapted for



provision of commercial or non-commercial services for user of the mobile station 1.

If the mobile station 1 subscribes to a mobile communication  
5 network, the elements of this network may provide a communication media between the service provider 12 and the mobile station 1. Thus the user may access the services provided by the service provider entity 12 via the communication network. Messages may be transmitted between  
10 the mobile station 1 and the service provider 12 based on any appropriate transport system. Examples of these include Short Message Service (SMS), Wireless Application Protocol (WAP) and Internet protocol (IP) based emails.

15 In an embodiment of the present invention the service provider entity 12 is adapted to provide the user with a possibility to obtain additional information regarding the subject of a specific transaction. The source of the additional information is preferably provided by data storage  
20 means 14 or similar object accessible by the user equipment 1. The service provider may provide the user equipment with information based on which it is possible to locate the data source object and to download information from the source object. The information may be a data network address of the  
25 object or similar means for directing the user to the object.

Figure 1 shows an embodiment where the source of the additional information 14 is provided by the service provider entity 12. However, as will be explained with reference to  
30 Figure 2, in another embodiment the service provider 12 provides the user with information of a source of additional information that is provided by another entity.

The source of additional information 14 may comprise any appropriate data storage means such as a database. The database or any other appropriate data storage means may be adapted to enable the service provider to create a web site  
5 15. The web site may comprise a collection of web pages. The skilled person is familiar with the basic concept of a web site and it is thus not explained in any great detail. It is sufficient to note that a web site may be, for example, a Wireless Application Protocol (WAP) or a World Wide Web (WWW)  
10 site. The site may be implemented based on appropriate markup language. Examples of markup languages include, without limiting to these, WML (wireless markup language), HTML (hypertext markup language), and XHTML (extended hypertext markup language).

15  
The mobile station 1 may download data from the web site. For example, the user may be enabled to download e.g. a receipt or a ticket from a web page. Alternatively, the service provider 12 may push data towards the user by means of a  
20 server function. For example, the service provider entity 12 may send data to the user by means of email or the short message service (SMS).

A preferred embodiment of the present invention will now be  
25 described in more detail with reference to Figure 2 and the flowchart of Figure 3. The embodiment relates to an electronic transaction that associates with a purchase of goods/services from a service provider comprised of a point of sale. The point of sale may be any organisation from which  
30 the user may purchase goods and/or services.

In the Figure 2 embodiment the point of sale constitutes of a shop 12. The shop is provided with a shop server 16 that is

adapted to process electronic transaction procedures with clients. The server 16 may handle transaction operations such as such as reception of orders and inquiries, acceptance of orders, reception of payments and/or provision of receipts  
5 and so on.

The processing of a purchase may comprise exchange of various kinds of transaction data between the parties 1 and 12. The transaction data may include, for example, information  
10 associated with an inquiry by the user, an offer by the shop, negotiations between the shop and the user, an acceptance of the offer and/or payment by the user. At the end of the purchasing the shop 12 may confirm the payment and/or the purchase by providing the user with a receipt.

15 Figure 2 illustrates a situation where the shop server 16 issues the receipt or similar confirmation means confirming the purchase and transmits the receipt to the mobile station 1. For added security the receipt may be signed by the  
20 private key of the point of sale. It shall be understood that the signature is not necessary for the operation of the invention.

The shop server 16 attaches to the message an indicator that  
25 may be used to address the user to a source of additional information. In the Figure 2 example the indicator comprises a universal resource locator (ULR). The ULR is an address of a web site.

30 The ULR provided for the mobile station 1 is the address of the a web site 15 of a manufacturer 13. The manufacturer 13 has informed the shop 12 of the ULR of the web site 15. The shop server 16 is adapted to attach the ULR to specific

transaction data messages that are to be communicated to clients.

An indicator of the site 15 may be displayed to the user on the display 2 of the user equipment 1 based on the message from the shop 12. If the user wishes to obtain additional information regarding the product he/she has bought or is considering to buy, the user may then select the indicator e.g. by the control buttons 3. By the selection a browser function 26 of the mobile station 1 is activated. The browser function 26 initiates a procedure for contacting the manufacturer 13. Additional information may then be downloaded to the user equipment 1 from the site 15 of the manufacturer 13.

The user may be provided with various kinds of additional information. For example only, information associated with the following aspects of a product may be downloaded and displayed to the user: place of origin of a product and/or the materials thereof; age or production date of the product and/or materials thereof; description of the product and/or materials thereof; production history; and so on.

According to an embodiment the additional information comprises a sample of the product or even the product itself. The sample or the product is downloaded to the user equipment based on the address information provided for the user equipment. For example, the user equipment may be provided with a sample of a record, video, video game, software or any other product that can be distributed via a data connection to the user equipment. The product itself may be delivered to the user equipment based on address information provided e.g. by means of a receipt of the purchase of the product.

A product may be identified with a unique identifier, such as a product code. Based on this the user may download information from the manufacturers database that associates  
5 directly with the specific product that was the subject of the transaction.

Instead of additional information relating directly to a specific product or service, the additional information may  
10 be of more general nature. For example, information may associate with the product type in general, or auxiliary equipment that may be used with the purchased product. The additional information may associate with user support and/or service facilities available for the user. The information  
15 may also give detailed information regarding complaint procedures. It shall be appreciated that these are only examples of the possibilities and in principle the additional information may be any information that associates with a transaction and which may be found useful or interesting.

20 The procedure of downloading information from a site e.g. based on a ULR of the site is known by the skilled person and will thus not be described in any greater detail herein. It is sufficient to note that after downloading data from the  
25 site a web page or several web pages may be shown to the user by the display of the user equipment. In addition to visual presentations, the user may also be provided with audio presentations, such as voice messages or sound effects.

30 The proceedings may be initiated by the user who may contact the shop server 16. The shop server may also offer a product or service for the user without a request by the user to do so by transmitting a message to the mobile user equipment 1.

The user may be physically present in the shop and select a product at the shop. In such a case the user may make the first contact with the shop server 16 e.g. when he/she wishes  
 5 to pay for the product or wishes to obtain more information about the product.

The communication between the shop server 16 and the mobile user equipment 1 may be made based on any appropriate  
 10 communication mechanism. The mobile user equipment 1 and the shop server 16 may communicate over a communication media that comprises a wireless interface between the mobile user equipment and a cellular telecommunication network and an interface between the cellular network and the shop server  
 15 16. The communication between the user equipment 1 and the shop server 16 may be based on any appropriate transport format.

The shop server 16 may be connected to one or several data  
 20 networks such as the Internet, to a local area network (LAN) and so on. The communication between a data network and the cellular network the user equipment 1 is connected to may occur via appropriate gateways.

25 The communication media between the mobile station 1 and the shop server 16 may also be based on local links such as local short range radio link (SRRL) or an infrared link. Referring now again to Figure 1, the mobile station 1 may be provided with a wireless transmitter and/or receiver module 5 that is  
 30 for use in communication with other co-operative communication means than the base station 10 of the cellular communication system. The module 5 may be based on use of the infrared links, short range radio links and so on. In such a

case the shop server would be provided with said other co-operative communication means.

An example of the short range radio links is the Bluetooth™. Bluetooth™ refers to a technology specification by Bluetooth special interest group (SIG) for small factor, low-cost, short range radio links (SRRL) between various devices provided with Bluetooth™ wireless modules. Another example of the short range interfaces is based on technology used for the so called contactless cards or proximity cards. An example of a short range link for proximity cards is defined by the International Standardisation Organisation (ISO) specification No. ISO 14443. An example of the infrared links is a link that is based on the IrDA protocol. The IrDA is a standard defined by Infrared Data Association.

The local link may be arranged such that the user may be provided with the additional information e.g. by contacting a co-operative communication means that is located close to the product he/she is interested in. The user equipment is provided e.g. with the ULR or other address information of the manufacturer of the product via the local link. The user may then use the ULR to download more information from the manufacturers server via a communication media provided by the communication system the user equipment subscribes to.

The shop server 16 may be adapted to utilise an appropriate identification and/or authorisation methods. The server 16 may also be provided with authentication data associated with the manufacturer 13. The server 16 may, for example, be provided with information regarding a public & private key pair of the manufacturer for signing transaction data. The server 12 may provide the public key of the manufacturer 13

to the mobile station 1. The mobile station may then verify any content it receives from the manufacturer to ensure that the received data is authentic and has been signed with the key he received from the shop.

5

Information may be transported between the mobile station 1 and the shop server by means of a standardised data entity. An example of a standardised data entity is an electronic data card. The shop server 16 may transmit e.g. the receipt  
10 and the indicator to the mobile station 1 by adding the relevant data on predefined data field of an electronic data card.

A more specific example of the data card is an electronic  
15 business card. The electronic business card content type, that is sometimes referred to as digital business card content type, is known by the skilled person. The electronic business cards are designed to be used instead of conventional business cards and have been conventionally used  
20 for transmitting and interchanging contact information and other information regarding a person or a group of persons to a user terminal. The user terminal may be an Internet enabled computer, a mobile station, hand held organiser, personal information manager, personal data assistant, pager, fax,  
25 office equipment, and so on. That is, the user terminal may be any device capable of processing data in electronic form. The destination terminal may also store the information it received on the electronic business card. The data that may be transmitted on conventional electronic business cards may  
30 include simple text, but also elements like pictures, company logos, Web addresses, and so on can be inserted in the fields thereof. An example of the electronic business card



applications available for the public is marketed under name 'vCard'.

Another example of formats that may be used for the data card  
5 is a format based on an appropriate electronic calendar format. An example of the electronic calendar formats is available for the public under name 'vCal'.

A further example of a possible data entity for the  
10 transmission of data between the mobile station and a co-operative device of another party is an electronic data card that is based on the Electronic Commerce Modelling Language (ECML). The ECML can be used in the exchange of purchase related information such as order, payment and receipt  
15 information. The EMCL defines also a way how specific field information like names, addresses and credit card information can be formatted and transported in a data communication system.

20 The inventors have found that information associated with the transaction can be transmitted on the data fields of an electronic data card. The use of the fields of the electronic data card may be extended such that the information associated with the indicator to the source of additional  
25 information is also added on a predefined field.

When generating the information to be transported to the mobile station 1, the shop server 16 may fill in the appropriate fields of the electronic data card. The  
30 transaction data and the indicator formation may be inserted in the fields e.g. in the following manner:

Field	Content	Example
NAME	Name of the shop plus any other identity information that may need to be known	"John's Iron"
Content Type (=DATA)	A special data field that by the existence thereof tells to the mobile station that the data entity associates with an electronic transaction	TYPE= "Card No"; "paid on date x; "product code"
URL	A web (or WAP) address	"www.manufacturer.com"
KEY	Signature	F4f9hergn7hgsaw7fa87gU yg8gytv4luFyt

5 The signature provides additional security for the transaction and against fraudulent use. The digital signature may be based on any appropriate authorisation technique, such as public and/or private keys. The skilled person is aware of these techniques and they will not be explained in more detail herein.

10

The transaction data can be transported through typical electronic business card channels, e.g. based on the vCard applications. For example, in the WAP the content type vCard is a mandatory feature. If data is loaded to the data card from a WWW or WAP page, the fields of the page can be mapped to the data card content type and filled in accordingly.

15

Figure 4 discloses an example of possible architecture for the provision of a wallet function entity 20 of a mobile user equipment. The wallet function enables electronic transactions between the mobile user equipment and other parties, such as the shop 12 of Figure 2. The wallet function entity 20 is shown to comprise various exemplifying subfunction blocks 21 to 24 such as 'provision', 'tickets', 'receipt' and 'dynamic template'. These are not essential for the operation of the invention and will thus not be explained in any more detail.

20

25

A browser block 26 is also shown. The browser 26 may be used by the user for downloading the additional information from a remote source server, such as from the server 14 of the manufacturer 13. The user may use the browser 26 to download a web page in response to selection of an indicator 17 displayed to him/her on the display screen 2 of the user equipment. The procedure of downloading information from a remote database is known and will thus not be explained in more detail.

The wallet entity 20 can be implemented at the user equipment 1 by adding a data card handling routine into the data card recognition software of the user equipment. In Figure 4 this software could be implemented in a splitter 31. The data card handling routine may be adapted to detect that the incoming data card or similar data entity is a data entity that contains information associated with the wallet function 20/ transactions and to route the data entity to an appropriate data storage means or processor.

The embodiments provide the user of a mobile user equipment with a feasible way to obtain additional information that associates with a transaction. For example, the user can be provided with a substantially detailed production data associated with a specific product. The user may download and study the additional data while still in the point of sale, and also before making his/her mind whether to buy the product or not. Use of long and/or expensive user's manuals or similar may be avoided, since the user may instead of these readily download the information from the manufacturer's database based on the information provided with the electronic receipt.

- The mobile user equipment may be adapted for communication based on any communication system, such as a GSM (Global System for Mobile communication), EDGE (enhanced data rate for GSM evolution) or any of the so called third generation (3G) wireless communication systems such as GPRS (General Packet Radio Service), UMTS (Universal Mobile Telecommunications System), IMT 2000 or i-phone and so on.
- 10 It should be appreciated that whilst embodiments of the present invention have been described in relation to mobile user equipment, embodiments of the present invention are applicable to any other suitable type of user equipment.
- 15 It is also noted herein that while the above describes exemplifying embodiments of the invention, there are several variations and modifications which may be made to the disclosed solution without departing from the scope of the present invention as defined in the appended claims.

## Claims

1. A method in a system wherein a user equipment and another party are enabled to exchange transaction data, the  
5 method comprising:
  - generating a data entity that associates with a transaction;
  - including information of an object that associates with the transaction in the data entity;
  - 10 transmitting the data entity to the user equipment over a wireless interface; and
  - requesting by the user equipment for additional information that associates with the transaction based on said information of the object.
- 15 2. A method as claimed in claim 1, wherein the information of the object comprises a communication network address of the object.
- 20 3. A method as claimed in claim 1 or 2, wherein the information of the object comprises a universal resource locator (URL).
4. A method as claimed in any preceding claim, wherein the  
25 object comprises a storage means for storing information that associates with the subject of the transaction.
5. A method as claimed in any preceding claim, wherein the  
30 user equipment initiates procedure for establishment of a communication media between the user equipment and the object based on said information of the object.

6. A method as claimed in any preceding claim, wherein the object is controlled by a third party.

7. A method as claimed in any preceding claim, wherein the  
5 object comprises a site in a data network.

8. A method as claimed in claim 7, wherein the site  
comprises a document that is retrievable from a server, said  
server being run by the producer the subject of the  
10 transaction.

9. A method as claimed in any preceding claim, wherein the  
additional information relates with at least one  
characteristic of the subject of the transaction.

15 10. A method as claimed in claim 9, wherein the at least one  
characteristic relates to a specific product or service.

11. A method as claimed in any preceding claim, wherein the  
20 additional information is provided by communication  
comprising speech.

12. A method as claimed in claim 11, wherein the user of the  
user equipment establishes a communication media with a  
25 person based on said information of the object.

13. A method as claimed in any preceding claim, wherein an  
indicator is displayed to the user of the user equipment  
based on said information of the object.

30 14. A method as claimed in claim 13, wherein the user may  
request for additional information by selecting the displayed  
indicator.

15. A method as claimed in any preceding claim, wherein the data entity is for provision of a receipt.

5 16. A method as claimed in any preceding claim, wherein the data entity is for provision of an offer.

17. A method as claimed in any preceding claim, wherein the data entity is for provision of conditions for sale.

10

18. A method as claimed in any preceding claim, wherein the data entity is based on an electronic data card format.

19. A method as claimed in any of the preceding claims,  
15 wherein the user equipment communicates with an element of a mobile communication network.

20. A method as claimed in any preceding claim, wherein the user equipment communicates via a local wireless link with  
20 another station.

21. A method as claimed in any preceding claim, wherein the user equipment communicates via at least two different communication means.

25

22. A system wherein a user equipment and another party are enabled to exchange transaction data, comprising:

transaction means for processing a transaction between the user equipment and said other party, said transaction  
30 means being adapted to generate a data entity including transaction data and information of an object associated with the transaction;

communication means for transmission of the data entity to the user equipment over a wireless interface; and

control means at the user equipment for processing the received data entity, said control means being adapted to  
5 request for additional information based on said information of the object.

23. A system as claimed in claim 22, wherein the user  
10 equipment comprises a station of a cellular communication system.

24. A system as claimed in claim 22 or 23, wherein the user  
15 equipment comprises means for communication over a local wireless link.

25. A mobile user equipment adapted for processing  
electronic transactions, comprising:

receiver means for receiving a data entity from a remote  
unit, said data entity including transaction data and  
20 information of an object associated with the transaction; and

control means for processing the received data entity,  
said control means being adapted to request for additional  
information based on said information of the object.



## Abstract

A method in a system wherein a user equipment (1) and another party (12) are enabled to exchange transaction data. A data  
5 entity is generated, said data entity associating with a transaction. Information of an object that associates with the transaction is included in the data entity. The data entity is then transmitted to the user equipment (1) over a wireless interface (11). The user equipment may then request  
10 for additional information that associates with the transaction based on said information of the object.

(Fig. 1)

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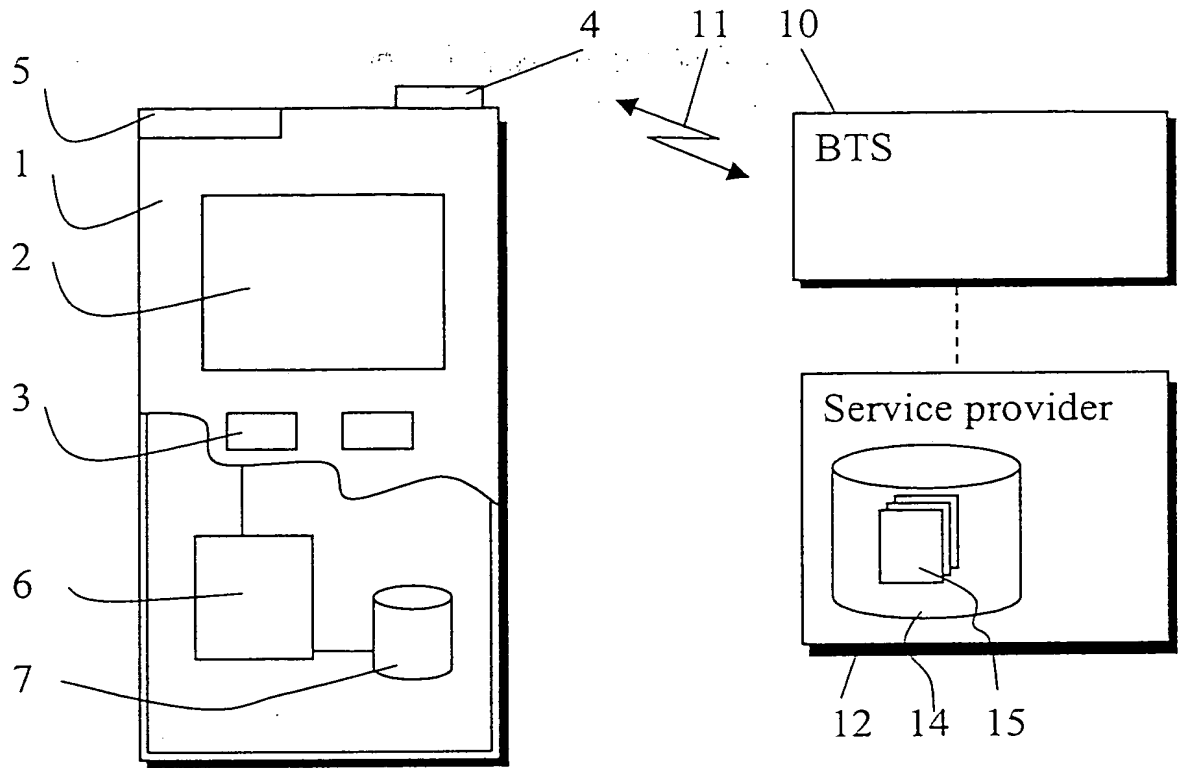


Fig. 1

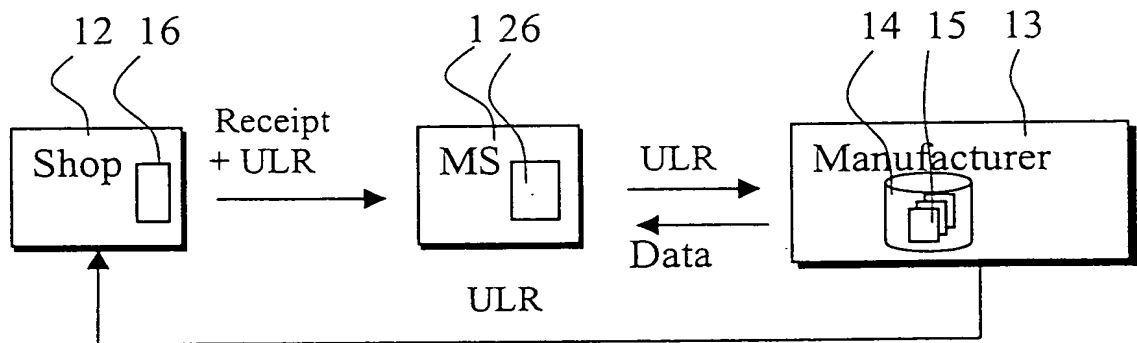


Fig. 2

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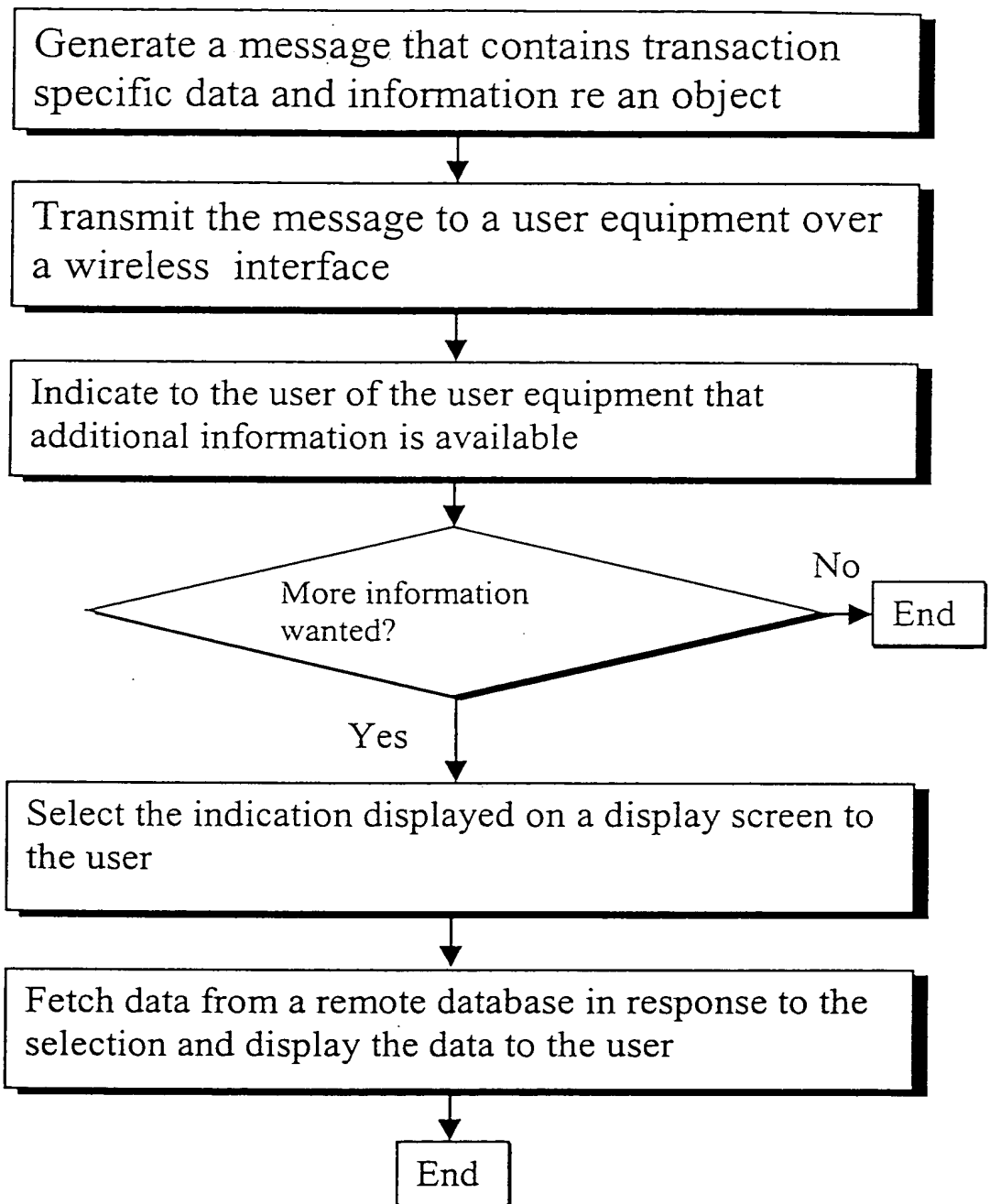
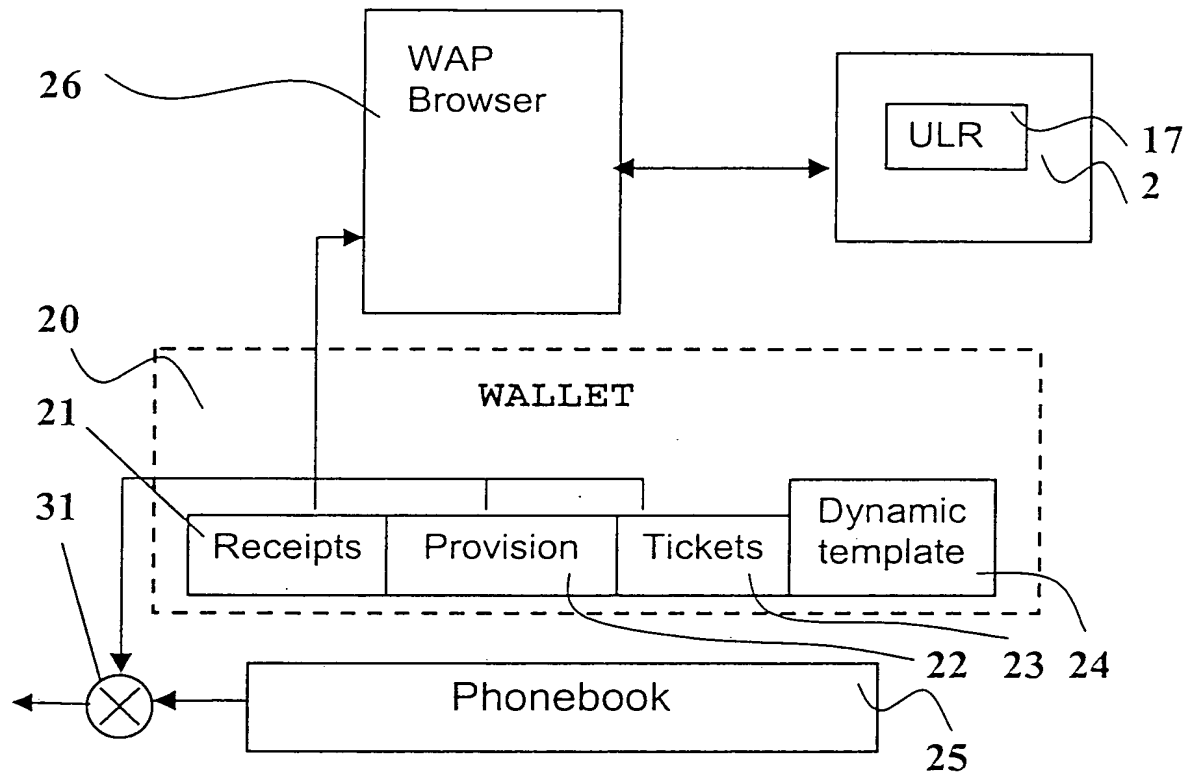


Fig. 3

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**Fig. 4**

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